

GenCore version 4.5
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OM protein - protein search, using sw model

Run on: October 28, 2000, 11:02:22 ; Search time 43.12 Seconds
(without alignments)
98.541 Million cell updates/sec

Title: US-09-157-984-1

Sequence: 1 KANDEFLHREYSVCDESEHW.....RFRINACVLSRSMRH 133

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Numbered: 87993 seqs, 31947931 residues

Total number of hits satisfying chosen parameters: 87993

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : SwissProt_39:*

Prod. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match Length	ID	Description
1	681	93.2	233 1 NT7_BRARE	O73797 brachydanio
2	419.5	57.4	194 1 NGF_XIPMA	P25429 xenopus lae
3	386.5	52.9	243 1 NGF_CHICK	P05200 gallus gall
4	382.5	52.3	231 1 NGF_XENLA	P21617 xenopus lae
5	379.5	51.9	241 1 NGF_MOUSE	P01139 mus musculu
6	373.5	51.1	241 1 NGF_RAT	P23427 rattus norv
7	368.5	50.4	229 1 NGF_PIG	Q29074 sus scrofa
8	368.5	50.4	241 1 NGF_HUMAN	P01138 homo sapien
9	368.5	50.4	241 1 NGF_PRANA	P26075 praeomys nat
10	362.5	49.6	231 1 NGF_BOVIN	P13600 bos taurus
11	362.5	49.6	241 1 NGF_CAVPO	P19093 cavia porce
12	355.5	48.6	241 1 NGF_DABRR	P30894 dabola russ
13	341.5	46.7	243 1 NGF_BUMMU	P34128 bungarus mu
14	321	43.9	257 1 NT3_CHICK	P25433 gallus gall
15	318	43.5	257 1 NT3_HUMAN	P20783 homo sapien
16	318	43.5	258 1 NT3_MOUSE	P20181 mus musculu
17	318	43.5	258 1 NT3_RAT	P18280 rattus norv
18	316	43.2	260 1 NT3_XENLA	P23435 xenopus lae
19	314	43.0	257 1 NT3_FELCA	Q95122 felis silve
20	310	42.4	116 1 NGF_NAJNA	P01140 naja naja (
21	308	42.1	116 1 NGF_NAJAT	P21377 naja atra (
22	260	35.6	255 1 BDNF_CAVPO	O70183 cavia porce
23	259	35.4	247 1 BDNF_HUMAN	P23560 homo sapien
24	259	35.4	247 1 BDNF_PROLO	O18755 procyon lot
25	259	35.4	247 1 BDNF_URSAR	O18752 ursus arcto
26	259	35.4	247 1 BDNF_URSML	O18753 ursus malay
27	259	35.4	249 1 BDNF_MOUSE	P21237 mus musculu
28	259	35.4	249 1 BDNF_RAT	P23363 rattus norv
29	259	35.4	252 1 BDNF_PTC	O14082 cyprinus ca
30	259	35.4	270 1 BDNF_CYPCA	O90322 cyprinus ca
31	258	35.3	114 1 BDNF_MACMU	O06225 macaca mula
32	258	35.3	248 1 BDNF_BOVIN	O95106 bos taurus
33	255	34.9	247 1 BDNF_FELCA	O95106 bos taurus

34	250	34.2	246 1 BDNF_CHICK	P25429 gallus gall
35	245	33.5	114 1 BDNF_XENLA	P25432 xenopus lae
36	244	33.4	269 1 BDNF_XIPMA	O02193 xiphophorus
37	236	32.3	209 1 NT4_RAT	P34131 rattus norv
38	231	31.6	210 1 NT4_HUMAN	P34130 homo sapien
39	217	29.7	236 1 NT4_XENLA	P24727 xenopus lae
40	154.5	21.1	257 1 NT6A_HUMAN	P34132 homo sapien
41	152.5	20.9	186 1 NT6B_HUMAN	P34133 homo sapien
42	149.5	20.5	257 1 NGF_HUMAN	P34133 homo sapien
43	120.5	16.5	42 1 NGF_VIPLE	P25428 vipera lebe
44	110.5	15.1	43 1 NT3_RAUCI	P25434 raja clavav
45	91	12.4	43 1 BDNF_RAUCI	P25430 raja clavav

ALIGNMENTS

RESULT	ID	NT7_BRARE	STANDARD	PRT	233 AA
1	AC	O73797			
DT	DT	30-MAY-2000 (Rel. 39, Created)			
DT	DT	30-MAY-2000 (Rel. 39, Last sequence update)			
DT	DT	30-MAY-2000 (Rel. 39, Last annotation update)			
DE	DE	NEUROTROPHIN-7 PRECURSOR (NT-7) (ZNT-7).			
GN	GN	NT7.			
OS	OS	Brachydanio rerio (zebrafish) (zebra danio).			
OC	OC	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;			
OC	OC	Actinopterygii; Neopterygii; Teleostei; Euteleostei; Ostariophysi;			
OC	OC	Cypriniformes; Cyprinidae; Rasbora; Danio.			
RN	RN	[1]			
RP	RP	SEQUENCE FROM K.A.			
RX	RX	MEDLINE: 98198571.			
RA	RA	Nilson A. S., Fainzilber M., Falck P., Ibanez C.F.;			
RT	RT	Neurotrophin-7: a novel member of the neurotrophin family from the			
RL	RL	zebrafish.			
FEBS	FEBS	Lett. 424:285-290(1998).			
CC	CC	-1- SIMILARITY: BELONGS TO THE NGF-BETA FAMILY.			
CC	CC	-----			
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CC	CC	-----			
DR	DR	EMBL: AF055906; AAC41272.1; -			
DR	DR	ZEIN; ZDB-GENE-990415-176; NT7.			
DR	DR	INTERPRO: IPR002072; -			
DR	DR	PFAM: PF00243; NGF_1.			
DR	DR	PRINTS: PR00268; NGF.			
DR	DR	PROSITE: PS00248; NGF_1; 1.			
KW	KW	Growth factor; Signal.			
FT	FT	SIGNAL 1 16			POTENTIAL.
FT	FT	PROPEP 17 97			BY SIMILARITY.
FT	FT	CHAIN 98 233			NEUROTROPHIN-7.
FT	FT	DISUFID 116 190			BY SIMILARITY.
FT	FT	DISUFID 153 218			BY SIMILARITY.
FT	FT	DISUFID 178 220			BY SIMILARITY.
SQ	SQ	SEQUENCE 233 AA; 26423 MM; ADOFCE96DF52C454 CRC64;			

Query Match 93.2%; Score 681; DB 1; Length 233;
Best Local Similarity 91.7%; Pred. No. 3.6e-66;
Matches 122; Conservative 4; Mismatches 7; Indels 0; Gaps 0;

QY	1	KANDEFLHREYSVCDESEHWNLQATDLRGNEVYLPVRRINNVKKQMFETTRVS	60
DB	97	KANDEFLHREYSVCDESEHWGNLTHTDLDGNEVMVLPFRINNVKKQMFETTRVY	156
QY	61	KPIAPPGCGVSVKAGTSSCRGIDENHNSTYNTVHTFVRLATSKKQNAFFIRINA	120

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Db 157 KPIGAPKPGGASGVKAGTSSCRGIDSKHMSYCTNHTTYRALTSTYKQIAMPFRIRINA 216
QY 121 ACVCVLSRNSMRH 133
Db 217 ACVCVLSRNSMRH 229

RESULT 2
NGF_XIPMA STANDARD; PRT; 194 AA.
AC P34129;
DT 01-FEB-1994 (Rel. 28, Created)
DT 01-FEB-1994 (Rel. 28, Last sequence update)
DE 01-FEB-1994 (Rel. 28, Last annotation update)
DE NERVE GROWTH FACTOR PRECURSOR (NGF).
OS Xiphophorus maculatus (Southern platyfish).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Actinopterygii; Neopterygii; Teleostei; Euteleostei; Neoteleostei;
OC Acanthomorphia; Acanthopterygii; Percomorpha; Atherinomorpha;
OC Cyprinodontiformes; Poeciliidae; Xiphophorus.
[1]
SEQUENCE FROM N.A.
MEDLINE; 9233301.
RA Goltz R., Raulf F., Scharf M.;
RT "Brain-derived neurotrophic factor is more highly conserved in
RT structure and function than nerve growth factor during vertebrate
RT evolution.";
RT J. Neurochem. 59:432-442(1992).
-1- FUNCTION: NERVE GROWTH FACTOR IS IMPORTANT FOR THE DEVELOPMENT AND
MAINTENANCE OF THE SYMPATHETIC AND SENSORY NERVOUS SYSTEMS. IT
STIMULATES DIVISION AND DIFFERENTIATION OF SYMPATHETIC AND
EMBRYONIC SENSORY NEURONS AS WELL AS BASAL FOREBRAIN CHOLINERGIC
NEURONS IN THE BRAIN.
-1- SUBUNIT: HOMODIMER.
-1- SIMILARITY: BELONGS TO THE NGF-BETA FAMILY.
-----
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DR EMBL; X59941; CAA42566.1; -
DR HSSP; P01139; 1HTG.
DR INTERPRO; IPR002072; -.
DR PIR; PF00243; NGF; 1.
DR PRINTS; PR00268; NGF.
DR PROSITE; PS00248; NGF_1; FALSE_NEG.
Growth factor; Signal.
FT SIGNAL 1 ?
FT PROPEP 79 ?
FT CHAIN 80 194 NERVE GROWTH FACTOR.
FT DISULFD 90 155 BY SIMILARITY.
FT DISULFD 133 183 BY SIMILARITY.
FT DISULFD 143 185 BY SIMILARITY.
SQ SEQUENCE 194 AA; 21596 MW; 0369E0F4A51147AE CRC64;

Query Match 57.4%; Score 419.5; DB 1; Length 194;
Best Local Similarity 63.0%; Pred. No. 4e-38;
Matches 80; Conservative 10; Mismatches 22; Indels 15; Gaps 2;
QY 7 HRGEYSYDSEHMYGNLQATDDLKRENYTVLPVHVLNNVKKQMYETTCGRYSKPIGAP 66
Db 83 HGVYSVESVSVWGNKRKATDISKEYTVLPYVNNVKKQYFEFTCH-SP----- 137
QY 67 KPGQGVSVKAGTSSCRGIDNEHMSYCTNHTTYRALTSTYKQIAMPFRIRINAACVCL 126
Db 138 -----SGSGSGCLGIDARHWNHCHNSHFTVALTSSSEQVAKRLIRINACVCL 187
QY 127 SRNSMRH 133

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Db 188 SRKSWOH 194
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RESULT 3
NGF_CHICK STANDARD; PRT; 243 AA.
AC P05200;
DT 13-AUG-1987 (Rel. 05, Created)
DT 13-AUG-1987 (Rel. 05, Last sequence update)
DE 01-NOV-1997 (Rel. 35, Last annotation update)
DE BETA-NERVE GROWTH FACTOR PRECURSOR (BETA-NGF).
OS Gallus gallus (Chicken).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Archosauria; Aves; Neognathae; Galliformes; Phasianidae; Phasianinae;
OC Gallus.
[1]
SEQUENCE FROM N.A.
MEDLINE; 86300646.
RA Ebendahl T., Lachmann R., Persson H.;
RT "Structure and expression of the chicken beta nerve growth factor
RT gene.";
RT EMBO J. 5:1483-1487(1986).
[2]
SEQUENCE OF 118-243 FROM N.A.
MEDLINE; 86248129.
RA Wilson D., Perret C., Frechin N., Keller A., Behar G., Brachet P.,
RA Auffray C.;
RT "Molecular cloning of the avian beta nerve growth factor gene:
RT transcription in brain.";
RT FEBS Lett. 203:82-86(1986).
[3]
SEQUENCE OF 121-243 FROM N.A.
MEDLINE; 86300647.
RA Meier R., Becker Andre M., Goltz R., Heumann R., Shaw A., Thoenen H.;
RT "Molecular cloning of bovine and chick nerve growth factor (NGF):
RT delineation of conserved and unconserved domains and their
RT relationship to the biological activity and antigenicity of NGF.";
RT EMBO J. 5:1489-1493(1986).
[4]
SEQUENCE OF 181-222 FROM N.A.
MEDLINE; 91232573.
RA Hallboeck F., Ibanez C.F., Persson H.;
RT "Evolutionary studies of the nerve growth factor family reveal a
RT novel member abundantly expressed in Xenopus ovary.";
RT Neuron 6:845-858(1991).
-1- FUNCTION: NERVE GROWTH FACTOR IS IMPORTANT FOR THE DEVELOPMENT AND
MAINTENANCE OF THE SYMPATHETIC AND SENSORY NERVOUS SYSTEMS. IT
STIMULATES DIVISION AND DIFFERENTIATION OF SYMPATHETIC AND
EMBRYONIC SENSORY NEURONS.
-1- SUBUNIT: HOMODIMER, ASSOCIATED BY NONCOVALENT FORCES.
-1- SIMILARITY: BELONGS TO THE NGF-BETA FAMILY.
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DR EMBL; X04003; CAA27633.1; ALT_INIT.
DR EMBL; D00010; BAA00008.1; -
DR EMBL; X04067; CAA27703.1; -
DR EMBL; M26810; AAA48984.1; -
DR PIR; A24857; A24857.
DR PIR; A26311; A26311.
DR HSSP; P01139; 1HTG.
DR INTERPRO; IPR002072; -.
DR PRINTS; PR00243; NGF; 1.
DR PROSITE; PS00248; NGF_1; 1.

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KW Growth factor: Signal.
 FT SIGNAL 1 22 POTENTIAL.
 FT PROPEP 23 125
 FT CHAIN 126 243 BETA-NERVE GROWTH FACTOR.
 FT DISULFID 139 204 BY SIMILARITY.
 FT DISULFID 182 232 BY SIMILARITY.
 FT DISULFID 192 234 BY SIMILARITY.
 SQ SEQUENCE 243 AA; 27138 MW; 74C306CB2079DA07 CRC64;

Query Match 52.9%; Score 386.5; DB 1; Length 243;
 Best Local Similarity 57.3%; Pred. No. 1.9e-34;
 Matches 73; Conservative 12; Mismatches 29; Indels 15; Gaps 1;

QY 2 ANDPFRGEYSVCESEHWGNLTQATDLRGNEVYLPVHRINNVYKKQMEYETTCRVSK 61
 DB 127 AHPVLAHGRFSCDSVSMVWGDKTATDICKKEVYLVGEVINNNVFKQYFETKCRDR 186
 62 PIGAPRPGGVSGVKAAGTSCRCGIDNEHNSYCTNVHTVYRALTYSKQJAMRFIRINA 121
 187 PV-----SSGCRGIDAKHNSYCTTHTFVKALTMGKQAMRFIRIDTA 231

QY 122 CVCVLSRMSWR 132
 DB 232 CVCVLSRMSGR 242

RESULT 4
 NGF_XENLA STANDARD; PRT; 231 AA.
 AC 021617;
 DT 01-MAY-1991 (Rel. 18, Created)
 DT 15-DEC-1998 (Rel. 37, Last sequence update)
 DT 15-DEC-1998 (Rel. 37, Last annotation update)
 DE NERVE GROWTH FACTOR PRECURSOR (NGF).
 OS Xenopus laevis (African clawed frog).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Amphibia; Batrachia; Anura; Mesobatrachia; Pipridae; Pipidae;
 OC Xenopodidae; Xenopus.
 RN [1]
 RP SEQUENCE FROM N.A.
 RX MEDLINE; 91362944.
 RA Carriero F., Campioni M., Cardinali B., Pierandrei-Amaldi P.;
 RT Structure and expression of the nerve growth factor gene in Xenopus
 oocytes and embryos.
 RL Mol. Reprod. Dev. 29:313-322(1991).
 RN [2]
 RP SEQUENCE OF 170-211 FROM N.A.
 RX TISSUE-LIVER;
 RA MEDLINE; 91222573.
 RA Hallboeek F., Ibanez C.F., Persson H.;
 RT Evolutionary studies of the nerve growth factor family reveal a
 novel member abundantly expressed in Xenopus ovary.
 RL Neuron 6:845-858(1991).
 CC -1- FUNCTION: NERVE GROWTH FACTOR IS IMPORTANT FOR THE DEVELOPMENT AND
 MAINTENANCE OF THE SYMPATHETIC AND SENSORY NERVOUS SYSTEMS. IT
 STIMULATES DIVISION AND DIFFERENTIATION OF SYMPATHETIC AND
 EMBRYONIC SENSORY NEURONS.
 CC -1- SUBUNIT: HOMODIMER, ASSOCIATED BY NONCOVALENT FORCES.
 CC -1- SIMILARITY: BELONGS TO THE NGF-BETA FAMILY.
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 or send an email to license@isb-sib.ch).
 CC EMBL; X55716; CA39249.1; ALT_INT.
 DR PIR; S14481; S14481.
 DR HSSP; P01139; ISGF.
 DR INTERPRO; IPR002072; .

DR PFAM; PF00243; NGF; 1.
 DR PRINTS; PS00266; NGF.
 DR PROSITE; PS00248; NGF_1; 1.
 KW Growth factor: Signal.
 FT SIGNAL 1 18 POTENTIAL.
 FT PROPEP 15 114
 FT CHAIN 115 231 NERVE GROWTH FACTOR.
 FT DISULFID 128 193 BY SIMILARITY.
 FT DISULFID 171 221 BY SIMILARITY.
 FT DISULFID 181 223 BY SIMILARITY.
 FT CARBOHYD 63 63 N-LINKED (GLCNAC. . .) (POTENTIAL).
 FT CARBOHYD 107 107 N-LINKED (GLCNAC. . .) (POTENTIAL).
 FT CARBOHYD 158 158 N-LINKED (GLCNAC. . .) (POTENTIAL).
 SQ SEQUENCE 231 AA; 26416 MW; 72A04E7D00B858C5 CRC64;

Query Match 52.3%; Score 382.5; DB 1; Length 231;
 Best Local Similarity 59.3%; Pred. No. 4.7e-34;
 Matches 73; Conservative 10; Mismatches 25; Indels 15; Gaps 1;

QY 6 LRGEYSVCESEHWGNLTQATDLRGNEVYLPVHRINNVYKKQMEYETTCRVSK 65
 DB 120 LHKGEYSVCESEHWGNLTQATDLRGNEVYLPVHRINNVYKKQMEYETTCRVSK 177
 66 PRPGGVSGVKAAGTSCRCGIDNEHNSYCTNVHTVYRALTYSKQJAMRFIRINA 125
 178 -----SSGCRGIDAKHNSYCTTHTFVKALTMGKQAMRFIRIDTACVCV 224

QY 126 LSR 128
 DB 225 LSR 227

RESULT 5
 NGF_MOUSE STANDARD; PRT; 241 AA.
 AC P01139; Q63864;
 DT 21-JUL-1986 (Rel. 01, Created)
 DT 21-JAN-1990 (Rel. 13, Last sequence update)
 DT 15-JUL-1998 (Rel. 36, Last annotation update)
 DE NERVE GROWTH FACTOR PRECURSOR (BETA-NGF).
 OS Mus musculus (Mouse).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
 RN [1]
 RP SEQUENCE FROM N.A.
 RX MEDLINE; 83167518.
 RA Scott J., Selby M.J., Urdea M.S., Quiroga M., Bell G.I., Rutter W.J.;
 RT Isolation and nucleotide sequence of a cDNA encoding the precursor
 of mouse nerve growth factor.
 RL Nature 302:538-540(1983).
 RN [2]
 RP SEQUENCE FROM N.A.
 RX MEDLINE; 83244969.
 RA Ullrich A., Gray A., Berman C., Dull T.J.;
 RT "Human beta-nerve growth factor gene sequence highly homologous to
 that of mouse".
 RL Nature 303:821-825(1983).
 RN [3]
 RP SEQUENCE FROM N.A.
 RX MEDLINE; 84206565.
 RA Ullrich A., Gray A., Berman C., Coussens L., Dull T.J.;
 RT "Sequence homology of human and mouse beta-nerve growth factor genes".
 RL Cold Spring Harb. Symp. Quant. Biol. 48:435-442(1983).
 RN [4]
 RP SEQUENCE FROM N.A.
 RC STRAIN-C57BL/6; TISSUE-SUBMAXILLARY GLAND;
 RX MEDLINE; 88038855.
 RA Selby M.J., Edwards R., Sharp F., Rutter W.J.;
 RT "Mouse nerve growth factor gene: structure and expression".
 RL Mol. Cell. Biol. 7:3057-3064(1987).
 RN [5]

RP SEQUENCE FROM N.A.
 RX MEDLINE: 93264918
 RA Yamamoto T., Yamakuni T., Okabe N., Amano T.;
 RT "Production and secretion of nerve growth factor by clonal striated
 muscle cell line, G8-1.";
 RL Neurochem. Int. 21:251-258(1992).
 RN [6]
 RP SEQUENCE OF 122-239.
 RX MEDLINE: 73075048.
 RA Angeletti R.H., Hermodson M.A., Bradshaw R.A.;
 RT "Amino acid sequences of mouse 2.5S nerve growth factor. II.
 RT Isolation and characterization of the thermolytic and peptic peptides
 RT and the complete covalent structure.";
 RL Biochemistry 12:100-115(1973).
 RN [7]
 RP X-RAY CRYSTALLOGRAPHY (2.3 ANGSTROMS).
 RX MEDLINE: 92065986.
 RA McDonald N.O., Lapatto R., Murray-Rust J., Gunning J., Wlodawer A.,
 RA Blundell T.L.;
 RT "New protein fold revealed by a 2.3-A resolution crystal structure of
 RT nerve growth factor";
 RL Nature 354:411-414(1991).
 RN [8]
 RP X-RAY CRYSTALLOGRAPHY (2.5 ANGSTROMS).
 RX MEDLINE: 94260545.
 RA Holland D.R., Cousens L.S., Meng W., Matthews B.W.;
 RT "Nerve growth factor in different crystal forms displays structural
 RT flexibility and reveals zinc binding sites.";
 RL J. Mol. Biol. 239:385-400(1994).
 RN [9]
 RP X-RAY CRYSTALLOGRAPHY (3.15 ANGSTROMS) OF 7S COMPLEX.
 RX STRAIN-SWISS WEBSTER; TISSUE-SUBMAXILLARY GLAND;
 RA MEDLINE: 98035451.
 RA Bax B., Blundell T.L., Murray-Rust J., McDonald N.O.;
 RT "Structure of mouse 7S NGF: a complex of nerve growth factor with
 RT four binding proteins.";
 RL Structure 5:1275-1285(1997).
 CC -1- FUNCTION: NERVE GROWTH FACTOR IS IMPORTANT FOR THE DEVELOPMENT AND
 CC MAINTENANCE OF THE SYMPATHETIC AND SENSORY NERVOUS SYSTEMS. IT
 CC STIMULATES DIVISION AND DIFFERENTIATION OF SYMPATHETIC AND
 CC EMBRYONIC SENSORY NEURONS.
 CC -1- SUBUNIT: HOMODIMER, ASSOCIATED BY NONCOVALENT FORCES.
 CC -1- SIMILARITY: BELONGS TO THE NGF-BETA FAMILY.
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 DR EMBL: M35075; AAA39818.1; ALT_INIT.
 DR EMBL: V00836; CAA24221.1; ALT_INIT.
 DR EMBL: K01759; AAA39820.1; ALT_INIT.
 DR EMBL: M14805; AAA39821.1; ALT_INIT.
 DR EMBL: M17298; AAA37687.1; ALT_INIT.
 DR EMBL: M17296; AAA37687.1; JOINED.
 DR EMBL: M17297; AAA37687.1; JOINED.
 DR EMBL: S62089; CAB32081.1; JOINED.
 DR PIR: A01400; NCMSMG.
 DR PDB: 1BET; 31-MAY-94.
 DR PDB: 1BTG; 08-MAR-96.
 DR PDB: 1SGF; 27-MAY-98.
 DR MGD: MGI:97321; NGFB.
 DR INTERPRO: IPR002072;
 DR PRAM: PR00243; NGF; 1.
 DR PRINTS: PR00268; NGF.
 DR PROSITE: PS00248; NGF_1; 1.
 KW Growth factor; Signal; 3D-structure.
 FT SIGNAL 18 POTENTIAL.
 FT PROPEP 19 121
 FT CHAIN 122 241 BETA-NERVE GROWTH FACTOR.

FT DISULFID 136 201
 FT DISULFID 179 229
 FT DISULFID 189 231
 FT CARBOHYD 69 69
 FT CARBOHYD 114 114
 FT CONFLICT 233 241
 SQ SEQUENCE 241 AA: 27076 MW; 164465E1DC50081 CRC64;
 N-LINKED (GLCNAC. . .) (POTENTIAL).
 N-LINKED (GLCNAC. . .) (POTENTIAL).
 LSRKATRG -> CSAGRIQERA (IN REF. 5).
 Query Match 51.9%; Score 379.5; DB 1; Length 241;
 Best Local Similarity 56.3%; Pred. No. 1e-33;
 Matches 71; Conservative 14; Mismatches 26; Indels 15; Gaps 1;
 QY 7 HREGYVCDSEBHWGNLTQATDLRGNEYVLPYHRINNVKQMFETCRYSKPGAP 66
 Db 129 HMGESVCDSSVWVGDKTTATDINGKETVLAEVNINNSVRFQFFETKCRASNPV--- 185
 QY 67 KPGQGVSGVKAFTSCRCGIDNEHWNSTCTNHTFEVRLTSTYNOJAMRIRINACVYL 126
 Db 186 -----ESCRGIDSKHNSYCTTHTFVKALTTDEKQAMRIRIDTACVYL 233
 QY 127 SRNSWR 132
 Db 234 SRKATR 239
 RESULT 6
 NGF_RAT
 ID NGF_RAT STANDARD; PRT: 241 AA.
 AC P25427;
 DT 01-MAY-1992 (Rel. 22, Created)
 DT 01-FEB-1996 (Rel. 33, Last sequence update)
 DT 01-NOV-1997 (Rel. 35, Last annotation update)
 DE BETA-NERVE GROWTH FACTOR PRECURSOR (BETA-NGF).
 GN NGFB.
 OS Rattus norvegicus (Rat).
 OC Eukaryota; Metazoa; Chordata; Craniota; Vertebrata; Euteleostomi;
 OC Mammalia; Euteleia; Rodentia; Sciurognathi; Muridae; Murinae; Rattus.
 RN [1]
 RP SEQUENCE FROM N.A.
 RX MEDLINE: 89037223.
 RA Whittemore S.R., Friedman P.L., Iarhammar D.G., Persson H.,
 RA Gonzalez-Carvajal M., Holets V.R.;
 RT "Rat beta-nerve growth factor sequence and site of synthesis in the
 RT adult hippocampus.";
 RL J. Neurosci. Res. 20:403-410(1988).
 RN [2]
 RP SEQUENCE OF 178-219 FROM N.A.
 RC STRAIN-SPRAGUE-DAWLEY; TISSUE-LIVER.
 RX MEDLINE: 91222573.
 RA Hallboeck F., Ibanez C.F., Persson H.;
 RT "Evolutionary studies of the nerve growth factor family reveal a
 RT novel member abundantly expressed in Xenopus ovary.";
 RL Neuron 6:845-853(1991).
 CC -1- FUNCTION: NERVE GROWTH FACTOR IS IMPORTANT FOR THE DEVELOPMENT AND
 CC MAINTENANCE OF THE SYMPATHETIC AND SENSORY NERVOUS SYSTEMS. IT
 CC STIMULATES DIVISION AND DIFFERENTIATION OF SYMPATHETIC AND
 CC EMBRYONIC SENSORY NEURONS.
 CC -1- SUBUNIT: HOMODIMER, ASSOCIATED BY NONCOVALENT FORCES.
 CC -1- SIMILARITY: BELONGS TO THE NGF-BETA FAMILY.
 CC
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 CC or send an email to license@isb-sib.ch).
 CC
 DR EMBL: M65589; AAA41697.1; ALT_INIT.
 DR HSSP: F01139; 1BTG.
 DR INTERPRO: IPR002072;
 DR PFAM: PF00243; NGF; 1.

PRINTS: PRO0268; NGF. 1.
 DR PROSITE; PS00248; NGF_1; 1.
 KW Growth factor; Signal.
 FT SIGNAL 1 18 POTENTIAL.
 FT PROPEP 19 121 BETA-NERVE GROWTH FACTOR.
 FT CHAIN 122 241 BY SIMILARITY.
 FT DISULFID 136 201 BY SIMILARITY.
 FT DISULFID 179 229 BY SIMILARITY.
 FT DISULFID 189 231 BY SIMILARITY.
 FT CARBOHYD 69 69 N-LINKED (GLCNAC. . .) (POTENTIAL).
 FT CARBOHYD 114 114 N-LINKED (GLCNAC. . .) (POTENTIAL).
 FT CARBOHYD 166 166 N-LINKED (GLCNAC. . .) (POTENTIAL).
 SO SEQUENCE 241 AA: 27009 MW; 665F42371563213D CRC64;

Query Match 51.1%; Score 373.5; DB 1; Length 241;
 Best Local Similarity 56.3%; Pred. No. 4.6e-33;
 Matches 71; Conservative 12; Mismatches 28; Indels 15; Gaps 1;

7 HGEFVSCDSEHVGWNLQATDLRGNEVTVLPHVRINNVYKQMFETTCRVSKPIGAP 66
 129 HMEFVSCDSVSWVGDKTATIDIKGEVTVLGEVNNINNVFQYFETTCRAPNPV--- 185
 67 KPGQVSGVAGTSSCGRIDNEHNSYCTNVHTFVRALISYKNOIAMRFRIRINACVCL 126
 186 -----DSGCRGIDSKHNSYCTTHTFVKALITMDKQAMRFRIRIDTACVCL 233
 127 SRNSWR 132
 234 SRKAAR 239

RESULT 7
 ID NGF_PIG STANDARD; PRT; 229 AA.

AC 029074;
 DT 01-NOV-1997 (Rel. 35, Created)
 DT 01-NOV-1997 (Rel. 35, Last sequence update)
 DT 01-NOV-1997 (Rel. 35, Last annotation update)
 DE BETA-NERVE GROWTH FACTOR PRECURSOR (BETA-NGF) (FRAGMENT).
 GN NGFB.
 OS Sus scrofa (Pig).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Cetartiodactyla; Suina; Suidae; Sus.
 RN [1]
 RP SEQUENCE FROM N.A.
 RA STRAIN-LARGE WHITE; TISSUE-BLOOD;
 RA MEDLINE; 9431389;
 RA "A new marker (NGFB) on pig chromosome 4, isolated by using a
 consensus sequence conserved among species."
 RT Cytogenet. Cell Genet. 67:120-125(1994).
 CC -1- FUNCTION: NERVE GROWTH FACTOR IS IMPORTANT FOR THE DEVELOPMENT AND
 MAINTENANCE OF THE SYMPATHETIC AND SENSORY NERVOUS SYSTEMS. IT
 STIMULATES DIVISION AND DIFFERENTIATION OF SYMPATHETIC AND
 EMBRYONIC SENSORY NEURONS.
 CC -1- SUBUNIT: HOMODIMER, ASSOCIATED BY NONCOVALENT FORCES.
 CC -1- SIMILARITY: BELONGS TO THE NGF-BETA FAMILY.
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 or send an email to license@isb-sib.ch).
 CC EMBL; L31898; AAA21301.1; -.
 DR HSBP; P01139; 1ETG.
 DR INTERPRO; IPR002072; -.
 DR PFAM; PF00243; NGF; 1.
 DR PROSITE; PS00248; NGF_1; 1.
 KW Growth factor; Signal.

FT NON_TER 1 1
 FT SIGNAL <1 6 POTENTIAL.
 FT PROPEP 7 109 BY SIMILARITY.
 FT CHAIN 11C 229 BETA-NERVE GROWTH FACTOR.
 FT DISULFID 124 189 BY SIMILARITY.
 FT DISULFID 167 217 BY SIMILARITY.
 FT DISULFID 177 219 BY SIMILARITY.
 FT CARBOHYD 57 57 N-LINKED (GLCNAC. . .) (POTENTIAL).
 FT CARBOHYD 102 102 N-LINKED (GLCNAC. . .) (POTENTIAL).
 FT CARBOHYD 154 154 N-LINKED (GLCNAC. . .) (POTENTIAL).
 SO SEQUENCE 229 AA: 25275 MW; FE8890771CBA3189 CRC64;

Query Match 50.4%; Score 368.5; DB 1; Length 229;
 Best Local Similarity 56.3%; Pred. No. 1.5e-32;
 Matches 71; Conservative 11; Mismatches 29; Indels 15; Gaps 1;

7 HGEFVSCDSEHVGWNLQATDLRGNEVTVLPHVRINNVYKQMFETTCRVSKPIGAP 66
 117 HMEFVSCDSVSWVGDKTATIDIKGEVTVLGEVNNINNVFQYFETTCRAPNPV--- 173
 67 KPGQVSGVAGTSSCGRIDNEHNSYCTNVHTFVRALISYKNOIAMRFRIRINACVCL 126
 174 -----DSGCRGIDSKHNSYCTTHTFVKALITMDKQAMRFRIRIDTACVCL 221
 127 SRNSWR 132
 222 SRKAAR 227

RESULT 8
 ID NGF_HUMAN STANDARD; PRT; 241 AA.

AC P01138;
 DT 21-JUL-1986 (Rel. 01, Created)
 DT 01-JAN-1990 (Rel. 13, Last sequence update)
 DT 01-NOV-1997 (Rel. 35, Last annotation update)
 DE BETA-NERVE GROWTH FACTOR PRECURSOR (BETA-NGF).
 GN NGFB.
 OS Homo sapiens (Human).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.
 RN [1]
 RP SEQUENCE FROM N.A.
 RA MEDLINE; 83244569.
 RA Ullrich A., Gray A., Berman C., Dull T.J.;
 RT "Human beta-nerve growth factor gene sequence highly homologous to
 that of mouse."
 RT Nature 303:821-825(1983).
 RN [2]
 RP SEQUENCE FROM N.A.
 RA MEDLINE; 84206565.
 RA Ullrich A., Gray A., Berman C., Coussens L., Dull T.J.;
 RT "Sequence homology of human and mouse beta-NGF subunit genes."
 RT Cold Spring Harb. Symp. Quant. Biol. 48:435-442(1983).
 RN [3]
 RP SEQUENCE FROM N.A.
 RA TISSUE-BRAIN;
 RC MEDLINE; 90326556.
 RA Borsani G., Pizzuti A., Ruggeri E.I., Falini A., Silani V.,
 RA Sisti A., Scariato G., Baralle F.E.;
 RT "cDNA sequence of human beta-NGF."
 RT Nucleic Acids Res. 18:4020-4020(1990).
 RN [4]
 RP SEQUENCE OF 178-219 FROM N.A.
 RC TISSUE-LEUKOCYTE;
 RA MEDLINE; 91222573.
 RA Hallboeck F., Ibanez C.F., Persson H.;
 RT "Evolutionary studies of the nerve growth factor family reveal a
 novel member abundantly expressed in Xenopus ovary."
 RT Neuron 6:845-858(1991).
 CC -1- FUNCTION: NERVE GROWTH FACTOR IS IMPORTANT FOR THE DEVELOPMENT AND
 MAINTENANCE OF THE SYMPATHETIC AND SENSORY NERVOUS SYSTEMS. IT

STIMULATES DIVISION AND DIFFERENTIATION OF SYMPATHETIC AND

EMBRONIC SENSORY NEURONS.
- SUBUNIT: HOMODIMER, ASSOCIATED BY NONCOVALENT FORCES.
- SIMILARITY: BELONGS TO THE NGF-BETA FAMILY.

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EMBL: V01511; CAA24755.1; -
EMBL: M21062; AA59931.1; -
EMBL: X52599; CAA36832.1; -
PIR: A01399; NGHUBM.
PIR: S10253; S10253.
HSSP: P01139; 1BTG.
MIM: 162030; -
INTERPRO: IPR002072; -
PFAM: PF00243; NGF.1.
PRINTS: PR00268; NGF.
PROSITE: PS00248; NGF.1; 1.
Growth factor: Signal.
KW SIGNAL 1 18
FT PROPEP 19 121
FT CHAIN 122 241
FT DISULFID 136 201
FT DISULFID 179 229
FT DISULFID 189 231
FT CARBOHYD 69 69
FT CARBOHYD 114 114
SEQUENCE 241 AA; 26987 MW; CF1DB4DC6B736B0F CRC64;

Query Match 50.4%; Score 368.5; DB 1; Length 241;
Best Local Similarity 54.2%; Pred. No. 1.6e-32;
Matches 71; Conservative 13; Mismatches 32; Indels 15; Gaps 1;

QY 2 ANDFLARGEVSVDSEHWGNLTQATDLRGNEVTVLPHVRINNVKKOMFEYETTCRVSK 61
DB 124 SHEIFRGEVSVDVSVWGDKTATDIDKEVWVLGEVNNINSVFQYFEETKCRDPN 183
QY 62 PIGAPRGQGVSVKAGTSSCRGIDNEHNSYCTNHTFVRALTSKNOIARFTINACVLSR 121
DB 184 PV-----DSCGRGIDSKHNSYCTTHTFVKALTMGKQAAARFIRIDTA 228

122 CVCVLSRNSMR 132
229 CVCVLSRKAAR 239

RESULT 9

NGF_PRANA STANDARD; PRT; 241 AA.

AC P20675;
DT 01-FEB-1991 (Rel. 17, Created)
DT 01-FEB-1991 (Rel. 17, Last sequence update)
DT 01-NOV-1997 (Rel. 35, Last annotation update)
DE BETA-NERVE GROWTH FACTOR PRECURSOR (BETA-NGF).
GN NGFB.
OS Prazmays natalensis (African soft-furred rat) (Mastomys natalensis).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae;
OC Mastomys.
RN [1]
RP SEQUENCE FROM N.A.
RX MEDLINE; 89172070.
RA Fahnestock M., Bell R.A.;
RT "Molecular cloning of a cDNA encoding the nerve growth factor precursor from Mastomys natalensis.";
RL Gene 69:257-264 (1988).

FUNCTION: NERVE GROWTH FACTOR IS IMPORTANT FOR THE DEVELOPMENT AND

MAINTENANCE OF THE SYMPATHETIC AND SENSORY NERVOUS SYSTEMS. IT
STIMULATES DIVISION AND DIFFERENTIATION OF SYMPATHETIC AND
EMBRONIC SENSORY NEURONS.

- SUBUNIT: HOMODIMER, ASSOCIATED BY NONCOVALENT FORCES.
- SIMILARITY: BELONGS TO THE NGF-BETA FAMILY.

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EMBL: M22748; AAA40599.1; ALT_INIT.
PIR: JTO343; NGRTBA.
HSSP: P01139; 1AGE.
INTERPRO: IPR002072; -
PFAM: PF00243; NGF.1.
PRINTS: PR00268; NGF.
PROSITE: PS00243; NGF.1; 1.
Growth factor: Signal.
KW SIGNAL 1 18
FT PROPEP 19 121
FT CHAIN 122 241
FT DISULFID 136 201
FT DISULFID 179 229
FT DISULFID 189 231
FT CARBOHYD 69 69
FT CARBOHYD 114 114
FT CARBOHYD 166 166
SEQUENCE 241 AA; 27035 MW; 8BFB207A1FEB2F7 CRC64;

Query Match 50.4%; Score 368.5; DB 1; Length 241;
Best Local Similarity 56.5%; Pred. No. 1.6e-32;
Matches 70; Conservative 13; Mismatches 26; Indels 15; Gaps 1;

QY 9 GEYSVCDSEHWGNLTQATDLRGNEVTVLPHVRINNVKKOMFEYETTCRVSKPAGRP 68
DB 131 GEFVSVDVSVWGDKTATDIDKEVWVLGEVNNINSVFQYFEETKCRANPV----- 185
QY 69 GQVSGVAGTSSCRGIDNEHNSYCTNHTFVRALTSKNOIARFTINACVLSR 128
DB 186 -----SSGCRGIDSKHNSYCTTHTFVKALTTDDRQAARFIRIDTACVCLTR 235

QY 129 NSMR 132
DB 236 KAPR 239

RESULT 10

NGF_BOVIN STANDARD; PRT; 231 AA.

AC P13600; O18969;
DT 01-JAN-1990 (Rel. 13, Created)
DT 15-JUL-1998 (Rel. 36, Last sequence update)
DT 15-JUL-1998 (Rel. 36, Last annotation update)
DE BETA-NERVE GROWTH FACTOR PRECURSOR (BETA-NGF) (FRAGMENT).
GN NGFB.
OS Bos taurus (Bovine).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Cetartiodactyla; Ruminantia; Pecora; Bovidae;
OC Bovidae; Bovinae; Bos.
RN [1]
RP SEQUENCE FROM N.A.
RC TISSUE-BLOOD.
RX MEDLINE; 97430845.
RA Eidunke C., Laurent P., Hayes H., Rodellar C., Levezuel H.,
RA Zaragoza P.;
RT "Assignment of the beta-nerve growth factor (NGFB) to bovine chromosome 3 band q23 by in situ hybridization.";

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OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Hystriognathi; Caviidae; Cavia.
RN [1]
RN SEQUENCE FROM N.A.
RC TISSUE-PROSTATE;
RX MEDLINE; 89177243.
RA Schwarz M.A., Fisher D., Bradshaw R.A., Jackson P.J.;
RT "Isolation and sequence of a cDNA clone of beta-nerve growth factor
    from the guinea pig prostate gland.";
RL J. Neurochem. 53:1203-1209(1989).
CC -1- FUNCTION: NERVE GROWTH FACTOR IS IMPORTANT FOR THE DEVELOPMENT AND
    MAINTENANCE OF THE SYMPATHETIC AND SENSORY NERVOUS SYSTEMS. IT
    STIMULATES DIVISION AND DIFFERENTIATION OF SYMPATHETIC AND
    EMBRYONIC SENSORY NEURONS.
CC -1- SUBUNIT: HOMODIMER, ASSOCIATED BY NONCOVALENT FORCES.
CC -1- SIMILARITY: BELONGS TO THE NGF-BETA FAMILY.
DR PIR: J10097; J10097.
DR HESP: P01139; 1BTG.
DR INTERPRO: IPR002072; .
DR PFAM: PF00243; NGF. 1.
DR PRINTS: PRO026; NGF.
DR PROSITE: PS00248; NGF_1; 1.
KW Growth factor; Signal.
FT CHAIN 15 121 POTENTIAL.
FT PROPEP 15 121 BETA-NERVE GROWTH FACTOR.
FT CHAIN 122 241 BY SIMILARITY.
FT DISULFID 136 201 BY SIMILARITY.
FT DISULFID 175 229 BY SIMILARITY.
FT DISULFID 185 231 BY SIMILARITY.
FT CARBOHYD 65 69 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 114 114 N-LINKED (GLCNAC. . .) (POTENTIAL).
SQ SEQUENCE 241 AA; 26821 MW; 2E4E26B197804BF4 CRC64;

Query Match 49.6%; Score 362.5; DB 1; Length 241;
Best Local Similarity 54.0%; Pred. No. 7, 1e-32;
Matches 68; Conservative 14; Mismatches 29; Indels 15; Gaps 1;

OY 7 HRGESVCDSEHWGNLTQATDLRGENEYVLPYRINNVYAKKQFFETTCVSPICAP 66
    |:::||||| |:::||||| |:::||||| |:::||||| |:::||||| |:::|||||
DB 129 HMGESVCDSEVSWADDTTATDIDKREYTVLAENVNVNNVKKQFFETKCDPSPV-- 185
OY 67 KPGQGVSGVAKGTSSCRGIDNENHNSYCVNTEFVALTSYNOJAMRIRINACVYL 126
    |:::||||| |:::||||| |:::||||| |:::||||| |:::||||| |:::|||||
DB 186 -----DSCRGIDSKHNSYCTTTFYKALTANKQAMRIRIDTACVYL 233
OY 127 SRNSWR 132.
DB 234 NRKAR 239

RESULT 12
NGF_DABRR
ID NGF_DABRR STANDARD; PRT; 117 AA.
AC P30894;
DT 01-JUL-1993 (Rel. 26, Created)
DT 01-JUL-1993 (Rel. 26, Last sequence update)
DT 01-NOV-1997 (Rel. 35, Last annotation update)
DE NERVE GROWTH FACTOR (NGF).
OS Dabolia russelli russelli (Russell's viper) (Vipera russelli russelli).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Lepidodonta; Squamata; Scleroglossa; Serpentes; Colubroidae;
OC Viperidae; Viperinae; Dabolia.
RN [1]
RN SEQUENCE.
RC TISSUE-VENOM;
RX MEDLINE: 93120151.
RA Koyama J.-I., Inoue S., Ikeda K., Hayashi K.;
RT "Purification and amino-acid sequence of a nerve growth factor from
    the venom of Vipera russelli russelli.";
RL Biochim. Biophys. Acta 1160:287-292(1992).
CC -1- FUNCTION: NERVE GROWTH FACTOR IS IMPORTANT FOR THE DEVELOPMENT AND
    MAINTENANCE OF THE SYMPATHETIC AND SENSORY NERVOUS SYSTEMS. IT

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RA Matisson Pierre P.C., le Beau M.M., Espinosa R. III, Ip N.Y.,
RA Belluscio L., de la Monte S.M., Squinto S., Firth M.E.,
RA Yancopoulos G.L.;
RT "Human and rat brain-derived neurotrophic factor and neurotrophin-3:
RT gene structures, distributions, and chromosomal localizations.";
RL Genomics 10:556-568(1991).
RN [5]
RP SEQUENCE OF 194-236 FROM N.A.
RC TISSUE-LEUKOCYTE;
RX MEDLINE; 91222573.
RA Hallboeek F., Ibanez C.F., Persson H.;
RT "Evolutionary studies of the nerve growth factor family reveal a
RT novel member abundantly expressed in Xenopus ovary.";
RL Neuron 6:845-858(1991).
RN [6]
RP X-RAY CRYSTALLOGRAPHY (2.3 ANGSTROMS).
RX MEDLINE; 95217877.
RA Robinson R.C., Radziejewski C., Stuart D.I., Jones E.Y.;
RT "Structure of the brain-derived neurotrophic factor/neurotrophin 3
RT heterodimer.";
RL Biochemistry 34:4139-4146(1995).
CC -1- FUNCTION: SEEMS TO PROMOTES THE SURVIVAL OF VISCERAL AND
CC PROPHOCCEPTIVE SENSORY NEURONS.
CC -1- SUBCELLULAR LOCATION: SECRETED.
CC -1- TISSUE SPECIFICITY: BRAIN AND PERIPHERAL TISSUES.
CC -1- SIMILARITY: BELONGS TO THE NGF-BETA FAMILY.
CC -----
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CC -----
DR EMBL; X53655; CAA37703.1; -
DR EMBL; M37763; AAA59953.1; -
DR EMBL; M61180; AAA63231.1; -
DR PIR; JH0141; JH0141.
DR PIR; A36208; A36208.
DR PIR; S10719; S10719.
DR PIR; C40304; C40304.
DR PDB; 1BND; 04-APR-96.
DR PDB; 1B8K; 09-FEB-99.
DR MIM; 162660; -
DR INTERPRO; IPR002072; -
DR INTERPRO; IPR002400; -
DR PFAM; PF00243; NGF.1.
DR PRINTS; PR00268; NGF.
DR PRINTS; PR00438; GFCYSKNOT.
DR PROSITE; PS00248; NGF_1; 1.
KW Growth factor; Signal; 3D-structure.
FT SIGNAL 1 16 POTENTIAL.
FT PROPEP 17 138
FT CHAIN 139 237 NEUROTROPHIN-3.
FT DISULFID 152 217
FT DISULFID 195 246
FT DISULFID 205 248
FT CARBOHYD 131 131 N-LINKED (GLCNAC... ) (POTENTIAL).
SO SEQUENCE 257 AA; 29354 MW; 39A5BB3B28E25E03 CRC64;

Query Match 43.5%; Score 318; DB 1; Length 257;
Best Local Similarity 47.2%; Pred. No. 4,7e-27;
Matches 60; Conservative 20; Mismatches 31; Indels 16; Gaps 2;

QY 7 HREGYSVCDSEHHVGNLTQATDLRGNEVTVLPHVRINNVYKQMFYETTCRVSKPGAP 66
DB 145 HREGYSVCDSESLWYDKSSAIDIRGHQVTLGELIKGNSPKQYFETRCREARPV--- 201
QY 67 KPQGVSQVAKGTSSCRSDINEHNNSYCTNHTFPRALTSYKNQ-IARRFITINACYCV 125
DB 202 -----KNCRCRIDDKHNNSSCKTSQTYVRALTSENNKTLVGRMRIRIDISCVCA 249

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Page 10

QY 126 LSRNSWR 132
| | |
Db 250 LSRKIGR 256

Search completed: October 28, 2000, 18:45:12
Job time: 27770 sec